



**National  
Aeronautical  
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**Documentation Sheet**

**Document Classification**

**RESTRICTED**

<b>Title</b> : PERFORMANCE OF GTX-35 VS ENGINE SCALED NOZZLES	<b>Document No.</b> PD PR 9005  <b>Date of issue:</b>
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<b>Division</b> : PROPULSION DIVISION	<b>No. of copies:</b> 15
<b>External participation</b> : GAS TURBINE RESEARCH ESTT., BANGALORE	<b>NAL Project No.</b> PR - 0 - 171
<b>Sponsor</b> :	<b>Sponsor's Project No.</b>

**Approval** : *JNV 4/4/60* Head, Propulsion Division

**Remarks** : Nil

**Keywords** : PROPULSIVE NOZZLE; NOZZLE THRUST; DISCHARGE  
COEFFICIENT; THRUST COEFFICIENT.

**Abstract** :

Scaled models of the GTX-35 VS engine convergent nozzles were tested under simulated conditions with particular reference to nozzle discharge and thrust coefficients. Nozzles having half angles of  $7^\circ$ ,  $12^\circ$ ,  $22^\circ$ ,  $30^\circ$  and  $35^\circ$  were tested at pressure ratios varying upto 10. Reynolds numbers at inlet to the test nozzles were of same order as those found in the engine. The results obtained were in broad agreement with the data available in literature and were found to be satisfactory.